

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 27866/34810	Serial No. 09/509,165
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		Applicant Gray, P.W. <i>et al.</i>	
		Filing Date June 12, 2000	Group 1648

# COPY

## U.S. PATENT DOCUMENTS

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
BCC	A1	4,965,392	10/23/90	Fritzberg <i>et al.</i>	558	254	
	A2	5,013,739	05/07/91	Bihari <i>et al.</i>	514	282	
	A3	5,037,630	08/06/91	Fritzberg <i>et al.</i>	424	1.1	
	A4	5,179,078	01/12/93	Rollins <i>et al.</i>	514	2	
	A5	5,241,049	08/31/93	Goodman <i>et al.</i>	530	350	
	A6	5,278,287	01/11/94	Rollins <i>et al.</i>	530	351	
	A7	5,413,778	05/09/95	Kunkel <i>et al.</i>	424	1.41	
	A8	5,459,128	10/17/95	Rollins <i>et al.</i>	514	8	
	A9	5,688,927	11/18/97	Godiska <i>et al.</i>	530	388.23	
	A10	5,705,360	01/06/98	Rollins <i>et al.</i>	435	69.1	
	A11	5,932,703	08/03/99	Godiska <i>et al.</i>	530	351	
	A12	6,245,332	06/12/01	Butcher <i>et al.</i>	424	484.1	
	A13	2,625,184	07/24/01	Gray <i>et al.</i>	435	69.1	
	A14	6,268,477	07/31/01	Gray <i>et al.</i>	530	350	
✓	A15	6,320,023	11/20/01	Godiska <i>et al.</i>	530	324	

EXAMINER <i>Acrogumh</i>	DATE CONSIDERED <i>8/18/2003</i>
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*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
BOL	B1	0 153 678	09/04/85	EPO	—	—		
	B2	0 310 136 A	04/05/89	EPO	—	—		
	B3	0 317 053	05/24/89	EPO	—	—		
	B4	0 462 960	12/27/91	EPO	—	—		
	B5	0 647 447	04/12/95	EPO	—	—		
	B6	0 666 257	08/09/95	EPO	—	—		
	B7	0 725 059	08/07/96	EPO	—	—		
	B8	0 860 446	08/26/98	EPO	—	—		
	B9	WO 89/01046	02/09/89	PCT	—	—		
	B10	WO 91/09955	07/11/91	PCT	—	—		
	B11	WO 92/20808	11/26/92	PCT	—	—		
	B12	WO 94/12650	06/09/94	PCT	—	—		
	B13	WO 95/13295	05/18/98	PCT	—	—		
	B14	WO 95/17092	06/29/95	PCT	—	—		
	B15	WO 96/23068	08/01/97	PCT	—	—		
	B16	WO 96/39521	12/12/96	PCT	—	—		
	B17	WO 96/40923	12/19/96	PCT	—	—		
	B18	WO 97/11969	04/03/97	PCT	—	—		
	B19	WO 97/29192	08/14/97	PCT	—	—		
	B20	WO 97/44055	11/27/97	PCT	—	—		

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Ble	B21	WO 97/44462	11/27/97	PCT	←	—		
	B22	WO 98/11226	03/19/98	PCT	—	—		
	B23	WO 98/24907	06/11/98	PCT	—	—		
↓	B24	WO 98/24908	06/11/98	PCT	—	—		

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	C2	Abi-Younes, S. <i>et al.</i> , "The CC Chemokines MDC and TARC Induce Platelet Activation Via CCR4," <i>Thromb. Res.</i> 101(4): 279-89 (2001).
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	C6	Amakawa, R. <i>et al.</i> , "Impaired Negative Selection of T cells in Hodgekins Disease Antigen CD30-Deficient Mice," <i>Cell</i> 84: 551-62 (1996).
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	C9	Baba, M. <i>et al.</i> , "Identification of CCR6, the Specific Receptor for a Novel Lymphocyte-directed CC Chemokine LARC," <i>J. Biological Chemistry</i> , 272(23):14893-14898 (6 June 1997).
↓	C10	Baggioni <i>et al.</i> , "CC Chemokines in Allergic Inflammation," <i>Immunol. Today</i> 15: 127 (1994).

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	C13	Baggiolini, M., <i>et al.</i> , "Chemokines and Leukocyte Traffic," <i>Nature (London)</i> , 392: 565-68 (1998).
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	C16	Baumer <i>et al.</i> , "Th1/Th2 Cell Distribution in Pulmonary Sarcoidosis," <i>Am. J. Respir. Cell Mol. Biol.</i> , 16(2):171-177 (1997).
	C17	Beck, L. A., <i>et al.</i> , "Cutaneous Injection of RANTES Causes Eosinophil Recruitment: Comparison of Nonallergic and Allergic Human Subjects," <i>J. Immunol.</i> 159: 2962.
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	C20	Berger <i>et al.</i> , "Distinct Antigen-induced Cytokine Pattern Upon Stimulation With Antibody-complexed Antigen Consistent With a Th1 $\rightarrow$ Th2-shift," <i>Res. Virol.</i> , 147(2-3):103-108 (1996).
↓	C21	Berin, M.C. <i>et al.</i> , "Production of MDC/CCL22 by Human Intestinal Epithelial Cells," <i>Am. J. Physiol. Gastrointest. Liver Physiol.</i> 280: G1217-G1226 (2001).

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1648**INFORMATION DISCLOSURE STATEMENT***(Use several sheets if necessary)***OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

B6	C22	Bertoletti <i>et al.</i> , "Different Cytokine Profiles of Intrahepatic T Cells in Chronic Hepatitis B and Hepatitis C Virus Infections," <i>Gastroenterol.</i> , 112(1):193-199 (1997).
	C23	Bleul, C.C <i>et al.</i> , "The Lymphocyte Chemoattractant SDF-1 Is a Ligand for LESTR/fusin and Blocks HIV-1 Entry," <i>Nature</i> , 382:829-833 (29 August 1996)
	C24	Bochner, B. S., <i>et al.</i> , "Adhesion of Human Basophils, Eosinophils, and Neutrophils to IT-1-Activated Human Vascular Endothelial Cells: Contributions of Endothelial Cell Adhesion Molecules," <i>J. Exp. Med.</i> 173: 1553 (1991)
	C25	Bombardier <i>et al.</i> , "Derivation of the SLEDAI: a Disease Activity Index for Lupus Patients," <i>Arthritis Rheum</i> , 35:630-40 (1992).
	C26	Bonecchi, R. <i>et al.</i> , "Differential Expression of Chemokine Receptors and Chemotactic Responsiveness of Type 1 T Helper Cells (Th1s) and Th2s," <i>J. Exp. Med.</i> , 187(1):129-134 (5 January 1998).
	C27	Bowie <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> , 247:1306-1310 (1990).
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	C29	Brown, A.F., "Anaphylactic Shock: Mechanisms and Treatment," <i>J. Accid. Emerg. Med.</i> , 12(2):89-100 (1995).
	C30	Brüggemann, M. and Neuberger, "Strategies for expressing human antibody repertoires in transgenic mice," <i>Immunol. Today</i> , 17(8):391-397 (1996).
	C31	Brüggemann, M. and Taussig, "Production of human antibody repertoires in transgenic mice," <i>Current Opinion Biotechnology</i> , 8:455-458 (1997).
↓	C32	Carballido, J.M. <i>et al.</i> , "The Intensity of T Cell Receptor Engagement Determines the Cytokine Pattern of Human Allergen-specific T Helper Cells," <i>Eur. J. Immunol.</i> , 27(2):515-521 (1997).

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*B. Nozumi*

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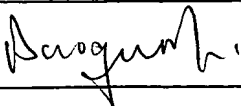

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B69	C33	Cenci <i>et al.</i> , "T Helper Cell Type 1 (Th1)-and Th2-like Responses Are Present in Mice with Gastric Candidiasis but Protective Immunity Is Associated with Th1 Development," <i>J. Infect. Dis.</i> , 171(5):1279-1288 (1995).
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	C40	Cheung <i>et al.</i> , "Modulation of Lymphocyte Motility by Macrophages," <i>Cell. Immunol.</i> , 109(2):295-305 (1987).
	C41	Clapham, P.R., "HIV and Chemokines: Ligands Sharing Cell Surface Receptors," <i>Trends in Cell Biol.</i> 7, 264-268 (1997)
	C42	Clark-Lewis <i>et al.</i> , "Structure-Activity Relationships of Interleukin-8 Determined Using Chemically Synthesized Analogs," <i>J. Biol. Chem.</i> , 266(34):23128-23134 (December 5, 1991).

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	C45	Combadiere <i>et al.</i> , "Cloning and Functional Expression of a Human Eosinophil CC Chemokine Receptor," <i>J. Biol. Chem.</i> , 270(27):16491-16494 (July 14, 1995).
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	C51	Daugherty, B.L. <i>et al.</i> , "Cloning, Expression, and Characterization of the Human Eosinophil Eotaxin Receptor," <i>J. Exp. Med.</i> , 183:2349-2354 (May 1996).
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↓	C53	Dean, M. <i>et al.</i> , "Genetic Restriction of HIV-1 Infection and Progression to AIDS by a Deletion Allele of the <i>CKR5</i> Structural Gene," <i>Science</i> , 273:1856-1862 (27 September 1996).

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f	C55	Denholm <i>et al.</i> , "Secretion of Monocyte Chemotactic Activity by Alveolar Macrophages," <i>Amer. J. Pathol.</i> , 135(3):571-580 (September, 1989).
	C56	Denholm and Lewis, "Monocyte Chemoattractants in Pigeon Aortic Atherosclerosis," <i>Amer. J. Pathol.</i> , 126:464-475 (1987).
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	C58	Denholm and Stankus, "Differential Effects of Two Fluorescent Probes on Macrophage Migration as Assessed by Manual and Automated Methods," <i>Cytometry</i> , 19:366-369 (1995).
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	C60	Denizot <i>et al.</i> , "PAF-Acether and Acetylhydrolase in Stool of Patients with Crohn's Disease," <i>Digestive Diseases and Sciences</i> , 37(3):432-437 (1992).
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	C64	Devi <i>et al.</i> , "Biologic Activities of the Beta-chemokine TCA3 on Neutrophils and Macrophages," <i>J. Immunol.</i> , 154(10):5376-5383 (1995).
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	C71	Endres <i>et al.</i> , "CD4 Independent Infection by HIV-2 Is Mediated By Fusin/CXCR4," <i>Cell</i> , 87, 745-756 (1996)
	C72	Falk and Leonard., "Specificity and Reversibility of Chemotactic Deactivation of Human Monocytes," <i>Infection and Immunity</i> , 32(2):464-468 (May, 1981).
	C73	Farzan, M. <i>et al.</i> , "HIV-1 Entry and Macrophage Inflammatory Protein-1 $\beta$ -mediated Signaling Are Independent Functions of the Chemokine Receptor CCR5*," <i>J. Biol. Chem.</i> , 272:6854-6857 (1997).
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Patent and Trademark OfficeAtty. Docket No.  
27866/34810Serial No.  
09/509,165Applicant  
Gray, P.W. *et al.*Filing Date  
June 12, 2000Group  
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